

# IDAHO TRANSPORTATION DEPARTMENT

## PORT OF ENTRY GENERATOR

BOISE, IDAHO

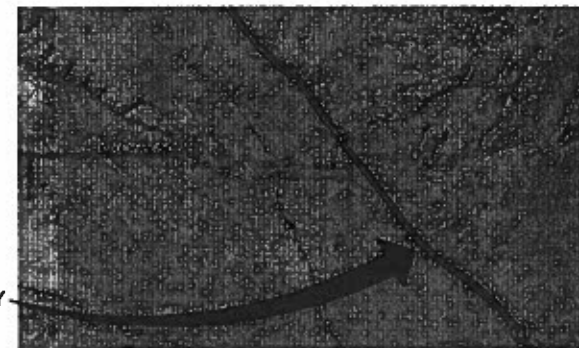
### INDEX OF DRAWINGS

SHEET	DESCRIPTION
CVR	COVER SHEET
C10	SITE PLAN
E10	SITE ELECTRICAL PLAN
E20E	BASEMENT ELECTRICAL PLAN
E21E	FIRST FLOOR ELECTRICAL PLAN
E3.0	ONE LINE DIAGRAM

ELECTRICAL SYMBOLS LIST	
SYMBOL	DESCRIPTION
-----	HOME RUN TO PANELBOARD, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER IDENTIFY PANELBOARD AND CIRCUIT NUMBERS (3/4" MINIMUM)
-----	CONDUIT (3/4" UON)* AND CONDUCTORS (2#12 UON) CONCEALED IN CEILING OR WALL; SEE SLASH LINE SYMBOL BELOW
-----	CONDUIT (3/4" UON)* AND CONDUCTORS (2#12 UON) CONCEALED IN FLOOR OR UNDERGROUND; SEE SLASH LINE SYMBOL BELOW
	SLASH LINES INDICATING NUMBER OF #12 CONDUCTORS UON. LONGER SLASH LINE INDICATES NEUTRAL CONDUCTOR. SLASH LINE WITH CENTER DOT INDICATES GROUND CONDUCTOR
o	CONDUIT UP
o	CONDUIT DOWN
o	CAPPED CONDUIT
---U/G P---	UNDERGROUND PRIMARY CONDUIT AND CONDUCTORS
---U/G S---	UNDERGROUND SECONDARY CONDUIT AND CONDUCTORS
A	EXTERIOR PAD MOUNTED TRANSFORMER
-----	BRANCH CIRCUIT PANELBOARD, SURFACE AND FLUSH MOUNTED, TOP AT +78"
-----	TERMINAL CABINET, SURFACE AND FLUSH MOUNTED
SS	SURGE SUPPRESSOR
OH	JUNCTION BOX, CEILING OR WALL MOUNTED (B-BLANK)
MO	MOTOR OUTLET
DS	DISCONNECT SWITCH
MS	COMBINATION SWITCH AND MAGNETIC MOTOR STARTER
CB	CIRCUIT BREAKER
X	GROUND ROD
M	WATTHOUR METER, +65" UON
0000	DUCT BANK ELEVATION, NUMERICAL VALUE DENOTES CONDUIT SIZE
1	KEYNOTE NUMBER
1/2	DETAIL REFERENCE
1/2	MECHANICAL EQUIPMENT DESIGNATION
AC	ABOVE COUNTER, 6" ABOVE COUNTER OR 3" ABOVE BACKSPASH
AC	AMPERES INTERRUPTING CAPACITY
C	CEILING MOUNT
CO	CONVENIENCE OUTLET
E	SUBSCRIPT ON DEVICE DENOTES CONNECTION TO EMERGENCY GENERATOR
EC	EMPTY CONDUIT WITH PULL LINE
EW	WATER COOLER CONNECTION. INSTALL AT ELECTRIC WATER COOLER. RECEPTACLE TO BE GFCI TYPE.
GFI	GROUND FAULT INTERRUPT
IG	ISOLATED GROUND
KS	DENOTES INSTALLATION IN KNEESPACE OF MILLWORK. DEVICE SHALL BE CENTERED IN KNEESPACE. KNEESPACE LOCATIONS TO BE COORDINATED WITH MILLWORK ELEVATIONS PRIOR TO ROUGH-IN
MLD	MAIN LUGS ONLY
OC	ON CENTER
TTB	TELECOMMUNICATIONS TERMINAL BOARD
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF

\* SEE SPECIFICATION SECTION 280533 FOR ADDITIONAL CONDUIT REQUIREMENTS  
**ELECTRICAL SYMBOLS LIST GENERAL NOTES:**  
1. HEIGHTS INDICATED ARE TO CENTER OF ITEM.  
2. EXISTING ELECTRICAL ITEMS INDICATED WITH SHORT DASHED LINES.

PROJECT VICINITY



PROJECT VICINITY MAP  
NOT TO SCALE

SITE VICINITY



SITE VICINITY MAP  
NOT TO SCALE

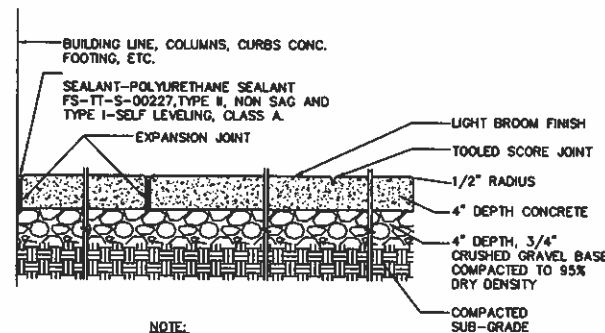


**EIDAM  
AND  
ASSOCIATES**  
CONSULTING ENGINEERS  
720 E PARK BOULEVARD, SUITE 260  
BOISE, IDAHO 83712  
Phone (208)345-7127 FAX (208)345-7175  
email: ced@eidam-assoc.com

IDAHO TRANSPORTATION DEPARTMENT  
PORT OF ENTRY GENERATOR  
BOISE, IDAHO  
COVER SHEET

JOB NO.  
11-034.01  
DATE  
11/18/11  
DRAWN BY  
CVR  
CHECKED BY  
GLJ  
REVISIONS

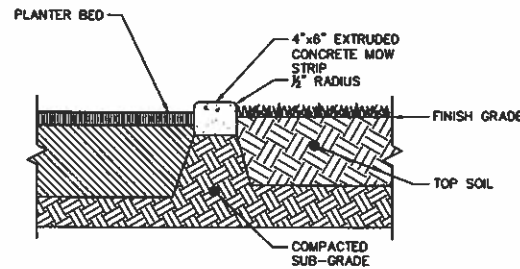
SHEET NO.  
**CVR**



NOTE:  
1. JOINTS SHALL BE SPACED EVENLY  
THROUGHOUT LENGTH OF WALK, AS  
SHOWN ON DRAWINGS.

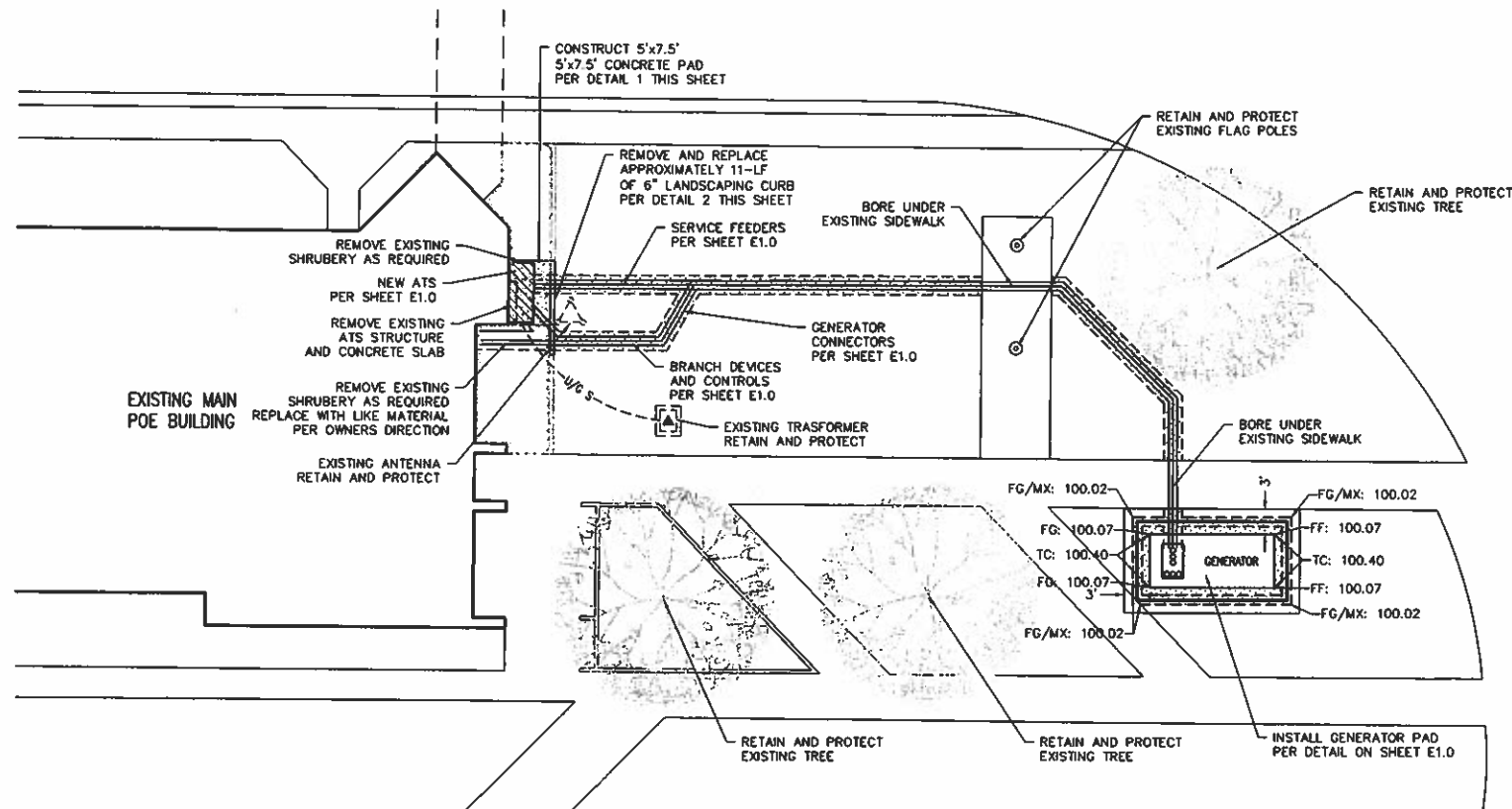
### 1 Standard Concrete Flatwork

Scale: NTS



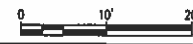
### 2 Concrete Edging

Scale: NTS



### Site Plan

HORIZONTAL SCALE: 1" = 10'



### General Notes:

1. THE CONTRACTOR SHALL EXAMINE THE SITE, COMPARE IT WITH THE PLANS AND SPECIFICATIONS, CAREFULLY EXAMINE ALL OF THE CONTRACT DOCUMENTS, AND SATISFY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED BEFORE ENTERING INTO CONTRACT. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE ON BEHALF OF THE CONTRACTOR ON ACCOUNT OF AN ERROR ON HIS PART AND/OR HIS NEGLIGENCE AND/OR FAILURE TO ACQUAINT HIMSELF WITH THE CONDITIONS OF THE SITE.
2. THE CONTRACTOR SHALL CONTACT DGLINE 48 HOURS PRIOR TO ANY EXCAVATION. 1-800-342-1585 OR 811
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STREETS, SIDEWALKS, OR EXISTING STRUCTURES DURING THE CONSTRUCTION OF THIS PROJECT, AND SHALL REPAIR SUCH DAMAGE TO THE SATISFACTION OF THE GOVERNING AGENCY, AT NO EXTRA COST TO THE OWNER.
4. ALL EXISTING CONDITIONS AND STRUCTURES, NOT SPECIFICALLY NOTED FOR REMOVAL, SHALL BE RETAINED AND PROTECTED. EXISTING CONDITIONS AND STRUCTURES THAT ARE DAMAGED DURING THE COURSE OF CONSTRUCTIONS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. THE CONTRACTOR SHALL PERFORM ALL CLEARING AND SITE PREPARATION NECESSARY FOR THE PROPER EXECUTION OF ALL WORK INDICATED ON THESE PLANS.
6. ALL WORK IS TO BE PERFORMED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS.
7. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS NECESSARY TO COMPLETE THE WORK, UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES.
9. THE LAND GROUP, INC. DOES NOT AND CANNOT GUARANTEE THE ACCURACY OF WORK DONE BY OTHERS AND INCLUDES THIS INFORMATION FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE OWNER'S REPRESENTATIVE TO REQUEST CLARIFICATION OF DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THIS PLAN AND INFORMATION SHOWN ELSEWHERE. IN THE EVENT THE CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT OFFICIAL CLARIFICATION FROM THE OWNER'S REPRESENTATIVE, HE SHALL BE LIABLE FOR THE COST OF CORRECTIVE WORK AND SHALL REPAIR OR RECONSTRUCT THE FAULTY WORK TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING, ERECTING AND MAINTAINING THE REQUIRED MATERIALS, EQUIPMENT AND MANPOWER NECESSARY FOR PUBLIC SAFETY AND TRAFFIC CONTROL, INCLUDING PEDESTRIAN TRAFFIC, WITHIN THE PROJECT LIMITS AND ON THE APPROACHES TO THE PROJECT.
11. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR SHALL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, AND THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL AND ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
12. THE CONTRACTOR SHALL REPAIR ALL IRRIGATION DAMAGED DURING CONSTRUCTION AND SHALL REPAIR ALL SURFACES DISTURBED DURING TRENCHING TO EXISTING CONDITIONS

### Abbreviations:

TC	TOP OF CONCRETE PAD
FG	FINISHED GRADE ELEVATION
MX	MATCH EXISTING

### Legend:

	EXISTING GRASS TO BE REMOVED AND REPLACED
--	---



**EIDAM  
AND  
ASSOCIATES**  
CONSULTING ENGINEERS  
720 E PARK BOULEVARD, SUITE 250  
BOISE, IDAHO 83712  
Phone (208) 345-7127, FAX (208) 345-7173  
email: ead@eidam-assoc.com

**IDAHO TRANSPORTATION DEPARTMENT  
PORT OF ENTRY GENERATOR  
BOISE, IDAHO**

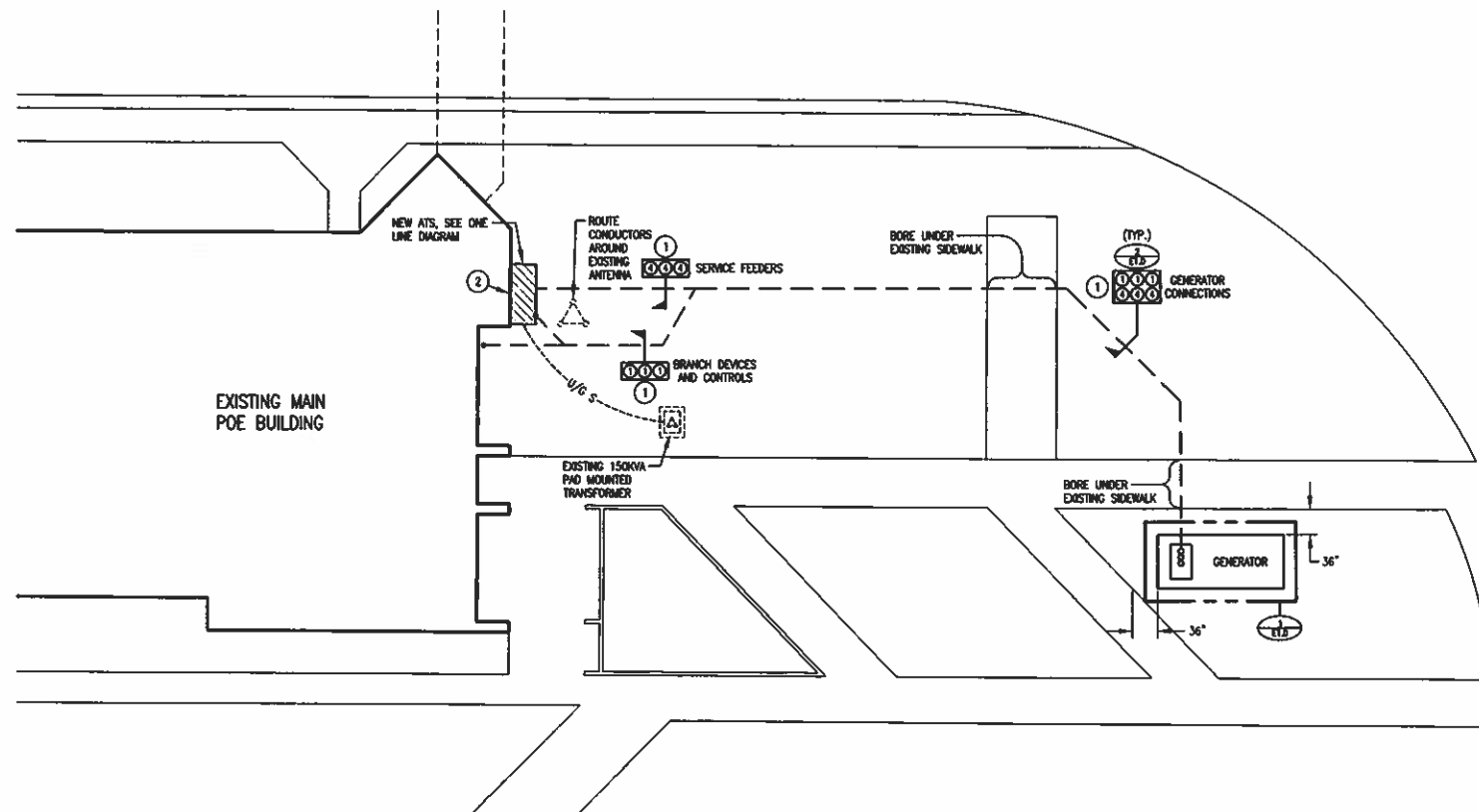
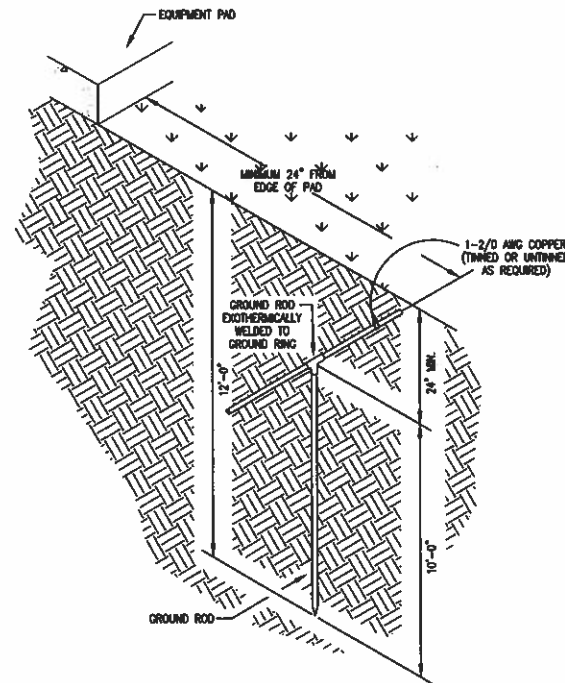
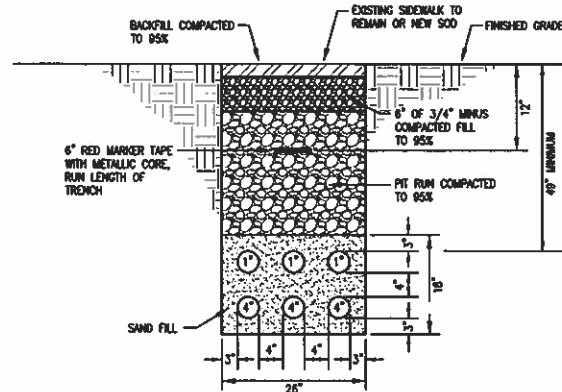
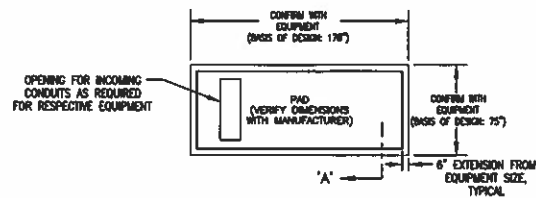
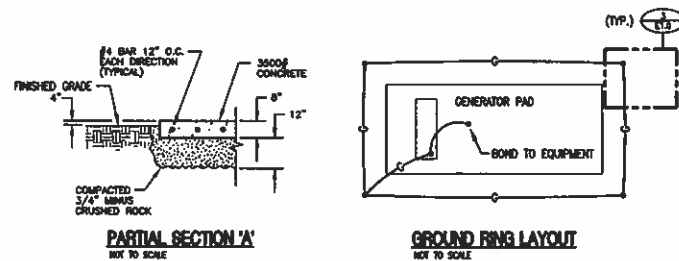
JOB NO.  
11-034.01  
DATE  
11/18/11  
DRAWN BY  
RTH  
CHECKED BY  
JCD  
REVISIONS

SHEET NO.

**C1.0**



**THE LAND GROUP, INC.**  
• Landscape Architecture  
• Civil Engineering  
• Site Planning  
• Civil Design & Engineering  
• Graphic Communications  
• Land Surveying  
482 East Shore Drive, Suite 100, Eagle, Idaho 83616  
Phone: 208.338.4641 Fax: 208.338.0445 www.thelandgroupinc.com



# **SITE ELECTRICAL PLAN**

SCALE: 1" = 10'-0"



## **KEYNOTES**

1. DUCT BANK ENCASED IN SAND FILL; CONDUIT QUANTITIES AND SIZE AS NOTED.
2. EXTEND EXISTING CONCRETE AND WALKWAY FOR SIZE OF ITS EQUIPMENT.

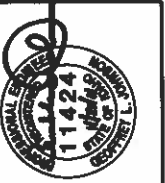
## **GENERAL NOTES**

1. REFER TO CIVIL PLANS FOR COORDINATION WITH OTHER EXISTING UTILITIES ON SITE AND FOR INSTRUCTIONS REGARDING LOCATING AND VERIFYING ALL EXISTING UNDERGROUND UTILITIES.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN ON CIVIL PLANS IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS REGARDING UNDERGROUND FACILITIES DAMAGE PREVENTION. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED AS A RESULT OF SITE WORK. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES OR LOCATING SERVICES FOR EXACT UTILITY LOCATIONS A MINIMUM OF 48 HOURS PRIOR TO DIGGING.
3. PRESERVE AND PROTECT ALL FACILITIES, STRUCTURES, AND LANDSCAPING OUTSIDE OF THE CONSTRUCTION AREA UNLESS NOTED OTHERWISE. COORDINATE WITH LANDSCAPING PLANS FOR SCHEDULE OF LANDSCAPING AND TREES.
4. EXISTING EQUIPMENT, DEVICES, AND CONNECTIONS WHERE SHOWN TO REMAIN ARE TO BE PROTECTED DURING ENTIRE CONSTRUCTION PROCESS. PROTECT ALL CONNECTIONS TO KEEP EXISTING EQUIPMENT ACTIVE. WHERE CONNECTIONS ARE DISRUPTED DUE TO CONSTRUCTION ACTIVITIES, REPAIR AND REPLACE DAMAGED CONNECTIONS.
5. CONTRACTOR TO PROVIDE THE OWNER WITH 24 HOUR NOTICE PRIOR TO DISCONNECTING POWER OR OTHER UTILITIES.
6. ALL UNDERGROUND CONDUIT ELBOWS SWEETING TO ABOVE GRADE SHALL BE PVC WRAPPED ROAD, WHERE SWEETING ABOVE GRADE, CONDUITS SHALL PROTRUDE A MINIMUM OF 3 INCHES ABOVE GRADE.
7. REFER TO SPECIFICATION SECTION 260100 FOR COORDINATION REQUIREMENTS WITH ELECTRICAL UTILITY COMPANY.
8. ALL CONDUCTORS/CABLES INSTALLED UNDERGROUND SHALL BE SUITABLE FOR WET LOCATIONS.

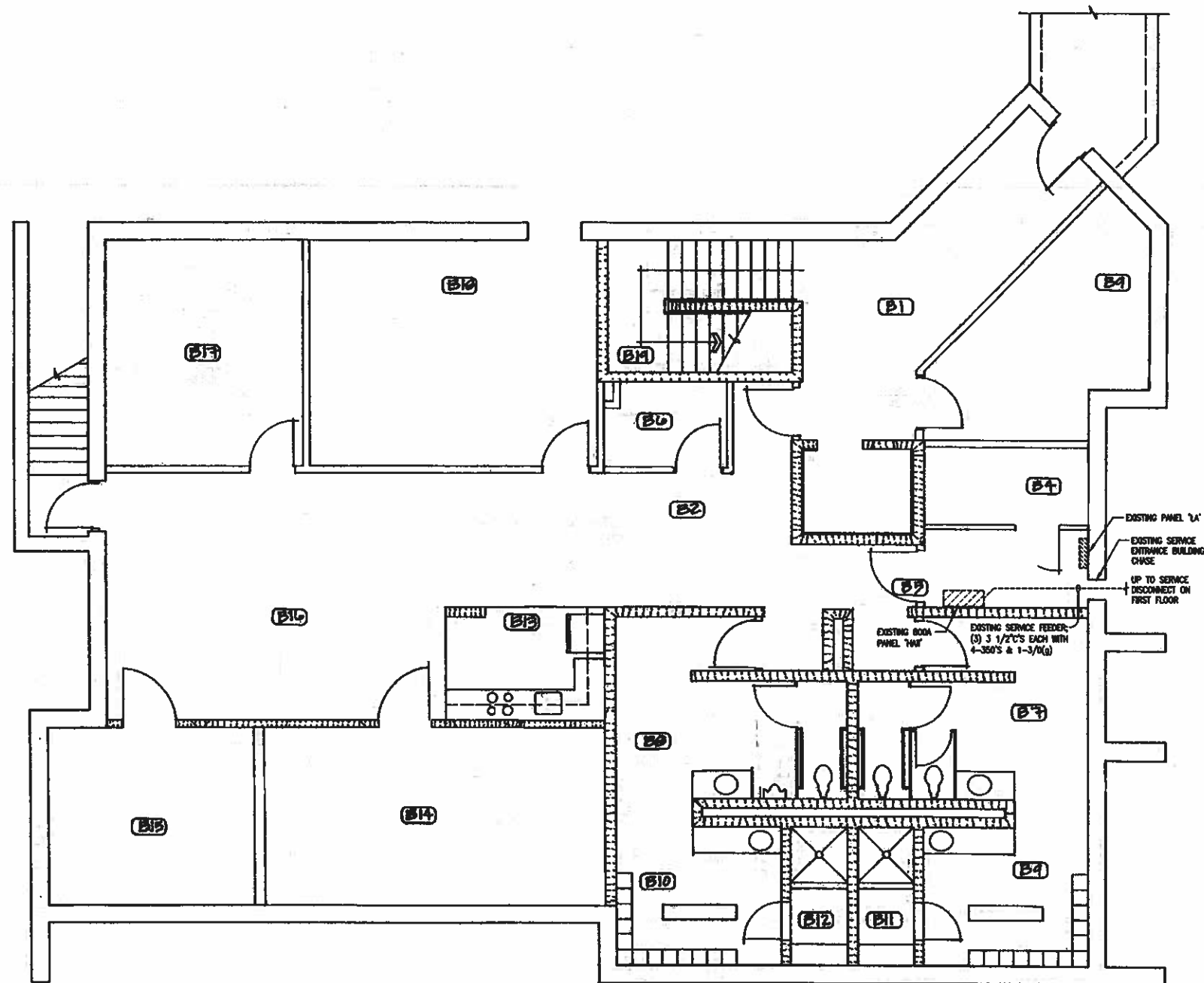
**IDAHO TRANSPORTATION DEPARTMENT  
PORT OF ENTRY GENERATOR  
BOISE, IDAHO  
SITE ELECTRICAL PLAN**

JOB NO.  
11-034.01  
DATE  
11/18/11  
DRAWN BY  
CJM  
CHECKED BY  
GLJ  
REVISIONS

**E1.0**



**EIDAM  
AND  
ASSOCIATES**  
CONSULTING ENGINEERS  
720 E PARK BOULEVARD, SUITE 250  
BOISE, IDAHO 83712  
Phone (208)45-7172, FAX (208)45-7173  
email: ead@eidam-assoc.com



THIS PLAN REPRESENTS EXISTING DEVICE AND EQUIPMENT LOCATIONS AS CLOSELY AS REASONABLY DISCERNIBLE AND IS PROVIDED FOR CONTRACTOR INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN VERIFICATION OF EXISTING CONDITIONS PRIOR TO BID.



# BASEMENT ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

## KEYNOTES

## GENERAL NOTES

1. RECEPTACLE LOCATIONS SHALL BE COORDINATED WITH MILLWORK, WALL FINISHES, WINDOW HEIGHTS, AND OTHER WALL MOUNTED EQUIPMENT PRIOR TO ROUGH-IN. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH WORK.
2. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE UTILIZED FOR LINE TO NEUTRAL LOADS. DEDICATED NEUTRAL CONDUCTORS SHALL BE PROVIDED FOR ALL CIRCUITS.
3. ALL JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36 INCHES ABOVE CEILING LEVEL.
4. REVIEW AND COORDINATE ALL EQUIPMENT CONNECTIONS WITH SUBMITTALS, SHOP DRAWINGS, AND MANUFACTURER'S INSTRUCTIONS FOR ALL ELECTRICALLY OPERATED EQUIPMENT SUPPLIED BY OTHER DIVISIONS OF WORK PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES IN ELECTRICAL CONNECTIONS BASED UPON REVIEW.

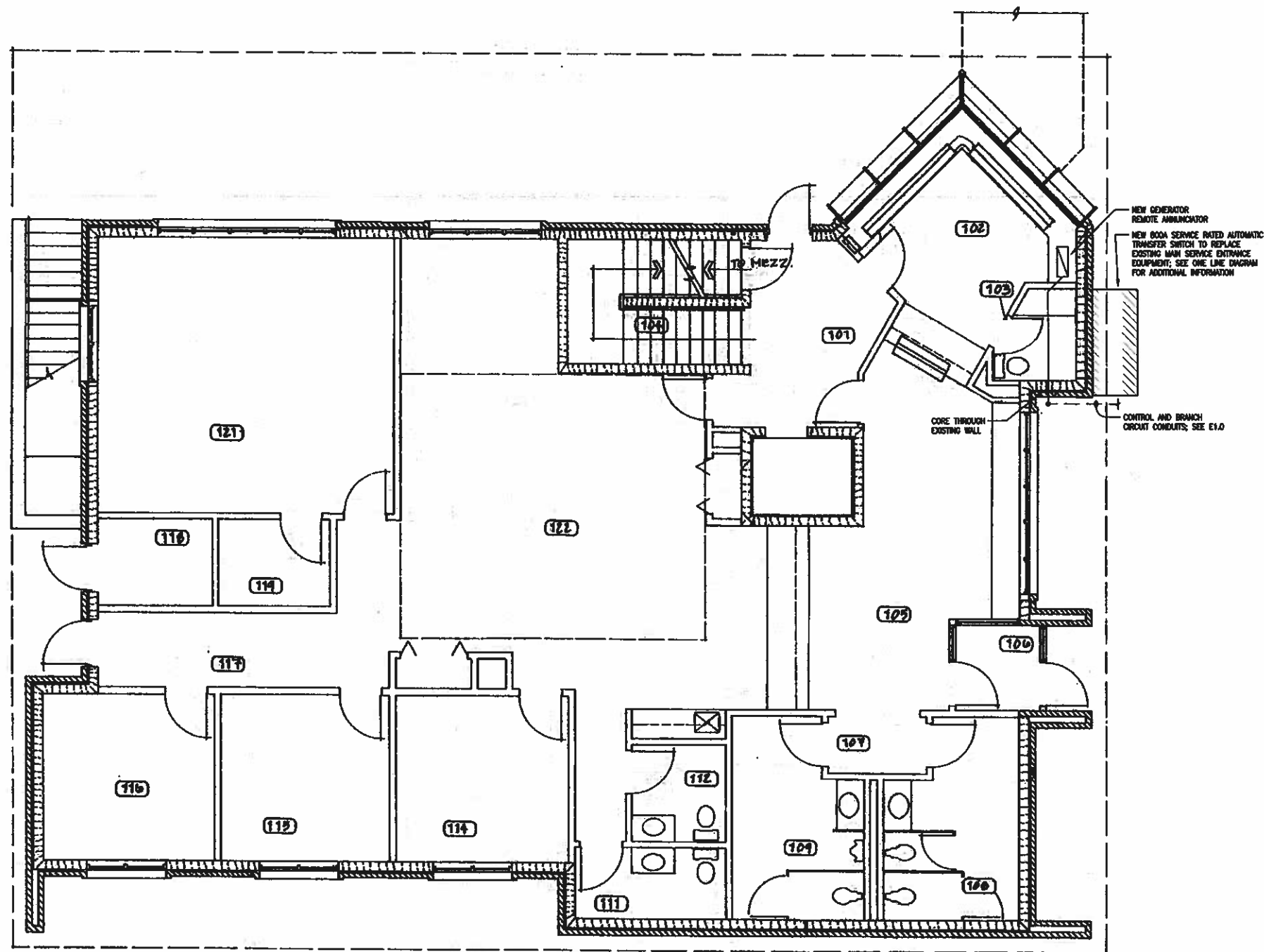
IDAHO TRANSPORTATION DEPARTMENT  
PORT OF ENTRY GENERATOR  
BOISE, IDAHO  
BASEMENT ELECTRICAL PLAN

ASB NO.  
11-034.01  
DATE  
11/18/11  
DRAWN BY  
CRH  
CHECKED BY  
GLJ  
REVISIONS

SHEET NO.  
E2.0E

EIDAM  
AND  
ASSOCIATES  
CONSULTING ENGINEERS  
720 E. PARK BOULEVARD, SUITE 200  
BOISE, IDAHO 83712  
Phone (208)345-7727 FAX (208)345-7773  
email: eideidam-associates.com





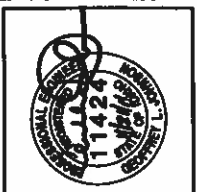
KEYNOTES

GENERAL NOTES

1. RECEPTACLE LOCATIONS SHALL BE COORDINATED WITH MILLWORK, WALL FINISHES, WINDOW HEIGHTS, AND OTHER WALL MOUNTED EQUIPMENT PRIOR TO ROUGH-IN. NOTIFY ARCHITECT OF CONFLICTS PRIOR TO PROCEEDING WITH WORK.
2. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE UTILIZED FOR LINE TO NEUTRAL LOADS. DEDICATED NEUTRAL CONDUCTORS SHALL BE PROVIDED FOR ALL CIRCUITS.
3. ALL JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36 INCHES ABOVE CEILING LEVEL.
4. REVIEW AND COORDINATE ALL EQUIPMENT CONNECTIONS WITH SUBMITTALS, SHOP DRAWINGS, AND MANUFACTURER'S INSTRUCTIONS FOR ALL ELECTRICALLY OPERATED EQUIPMENT SUPPLIED BY OTHER DIVISIONS OF WORK PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES IN ELECTRICAL CONNECTIONS BASED UPON REVIEW.

FIRST FLOOR ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"



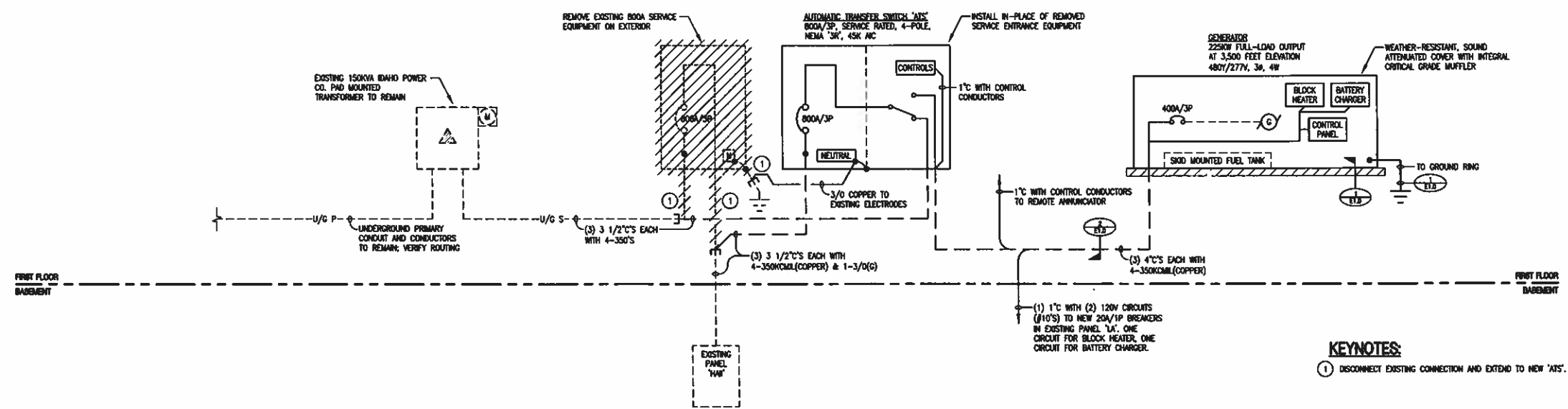
**EIDAM AND ASSOCIATES**  
**CONSULTING ENGINEERS**  
 720 E PARK BOULEVARD, SUITE 260  
 BOISE, IDAHO 8372  
 Phone (208) 345-7127 FAX (208) 345-7173  
 email: ce@eidam-assoc.com

IDAHO TRANSPORTATION DEPARTMENT  
 PORT OF ENTRY GENERATOR  
 BOISE, IDAHO  
 FIRST FLOOR ELECTRICAL PLAN

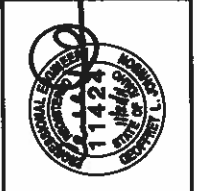
JOB NO. 11-034.01  
 DATE 11/18/11  
 DRAWN BY CHJ  
 CHECKED BY CLJ  
 REVISIONS

SHEET NO.  
**E2.1E**

NOTED: SEE E2.1E FOR ELECTRICAL SYMBOLS AND NOTATIONS



GENERATOR CONNECTION ONE LINE DIAGRAM  
NOT TO SCALE



**EIDAM  
AND  
ASSOCIATES**  
CONSULTING ENGINEERS  
720 E PARK BOULEVARD, SUITE 250  
BOISE, IDAHO 83725  
Phone (208)345-7127 FAX (208)346-7173  
email: ead@eidam-associates.com

IDAHO TRANSPORTATION DEPARTMENT  
PORT OF ENTRY GENERATOR  
BOISE, IDAHO  
ONE LINE DIAGRAM

REV. NO.	11-034.01
DATE	11/18/11
DRAWN BY	CRH
CHECKED BY	GLJ
REVISIONS	

SHEET NO.  
**E3.0**